

FIG. 1A

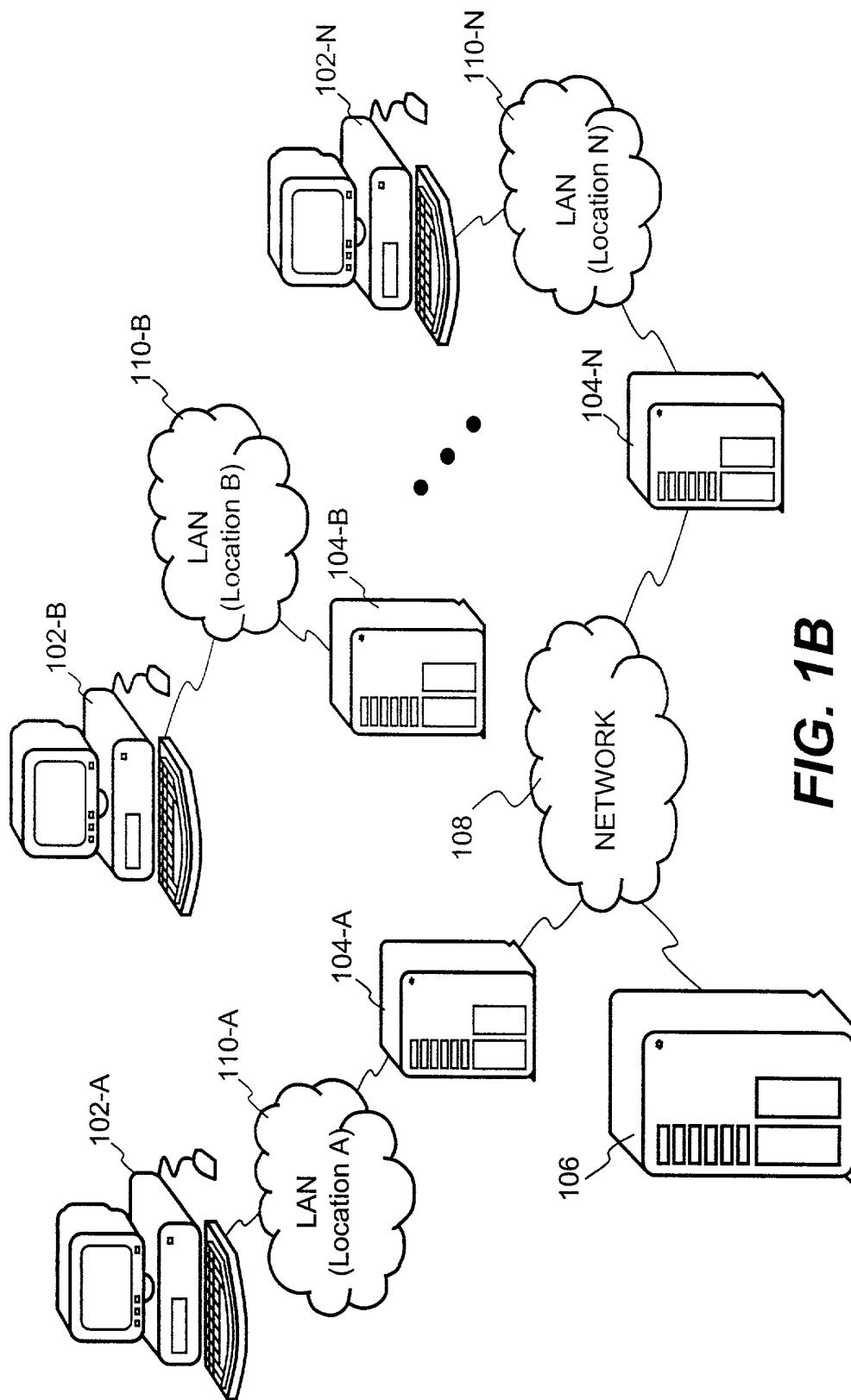


FIG. 1B

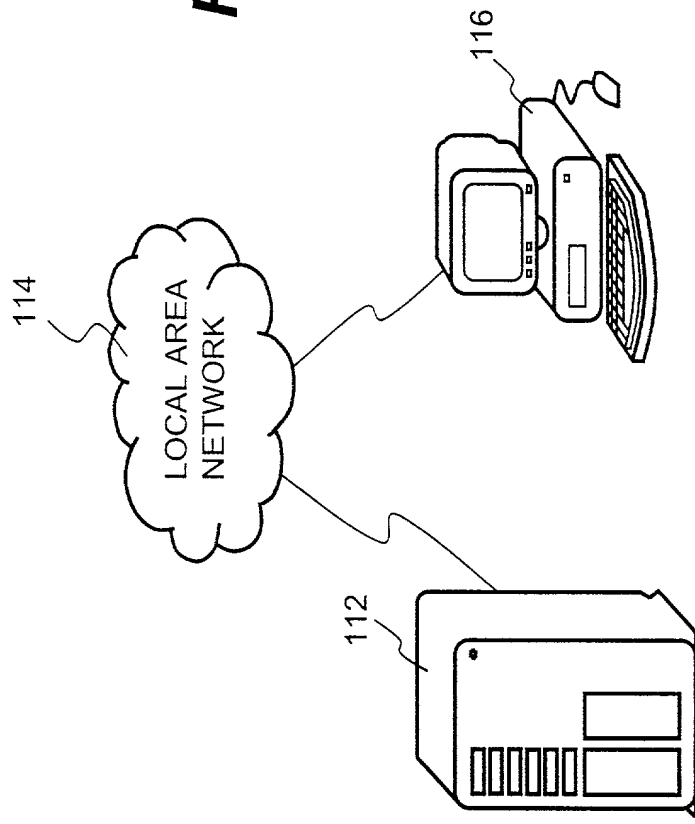


FIG. 1C

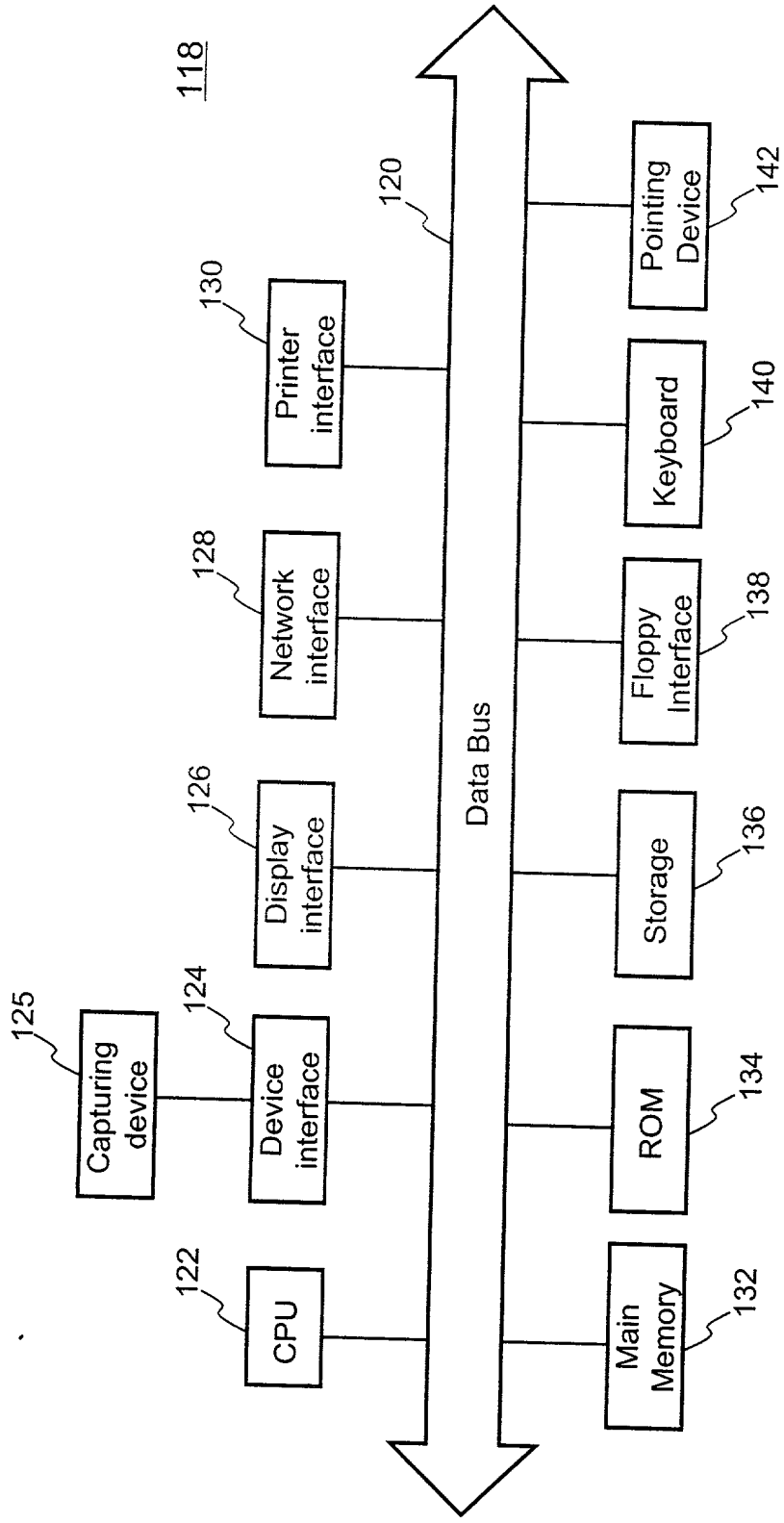


Fig. 1D

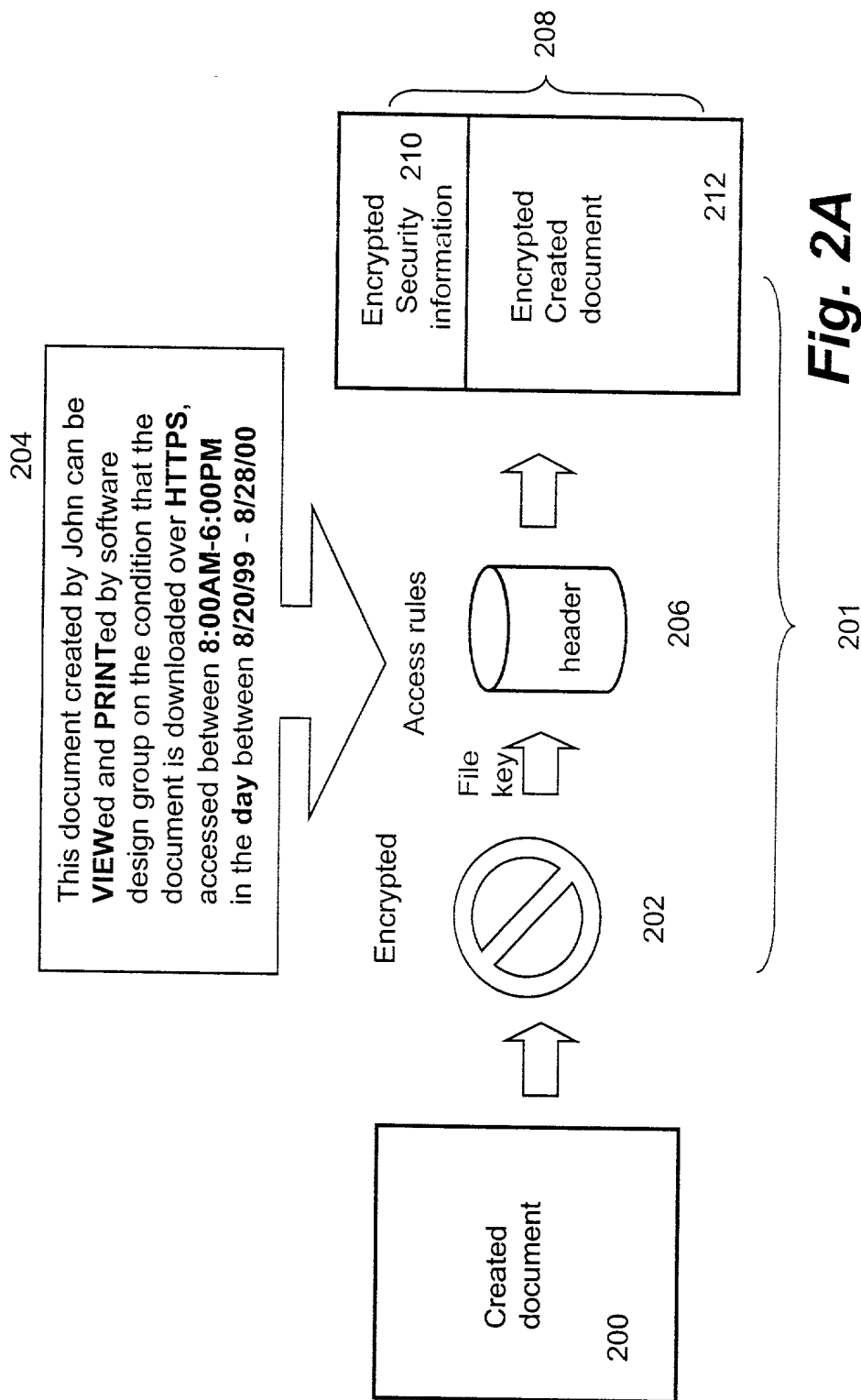


Fig. 2A

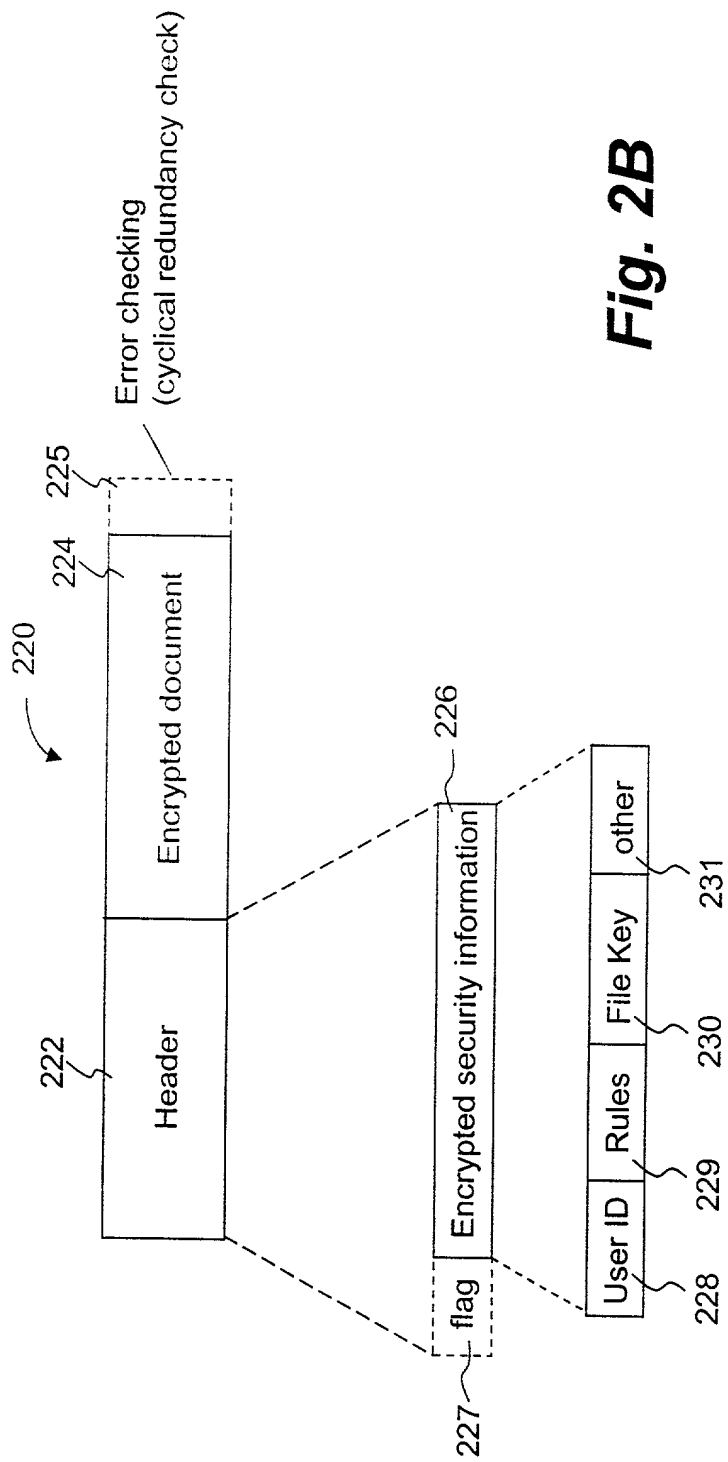


Fig. 2B

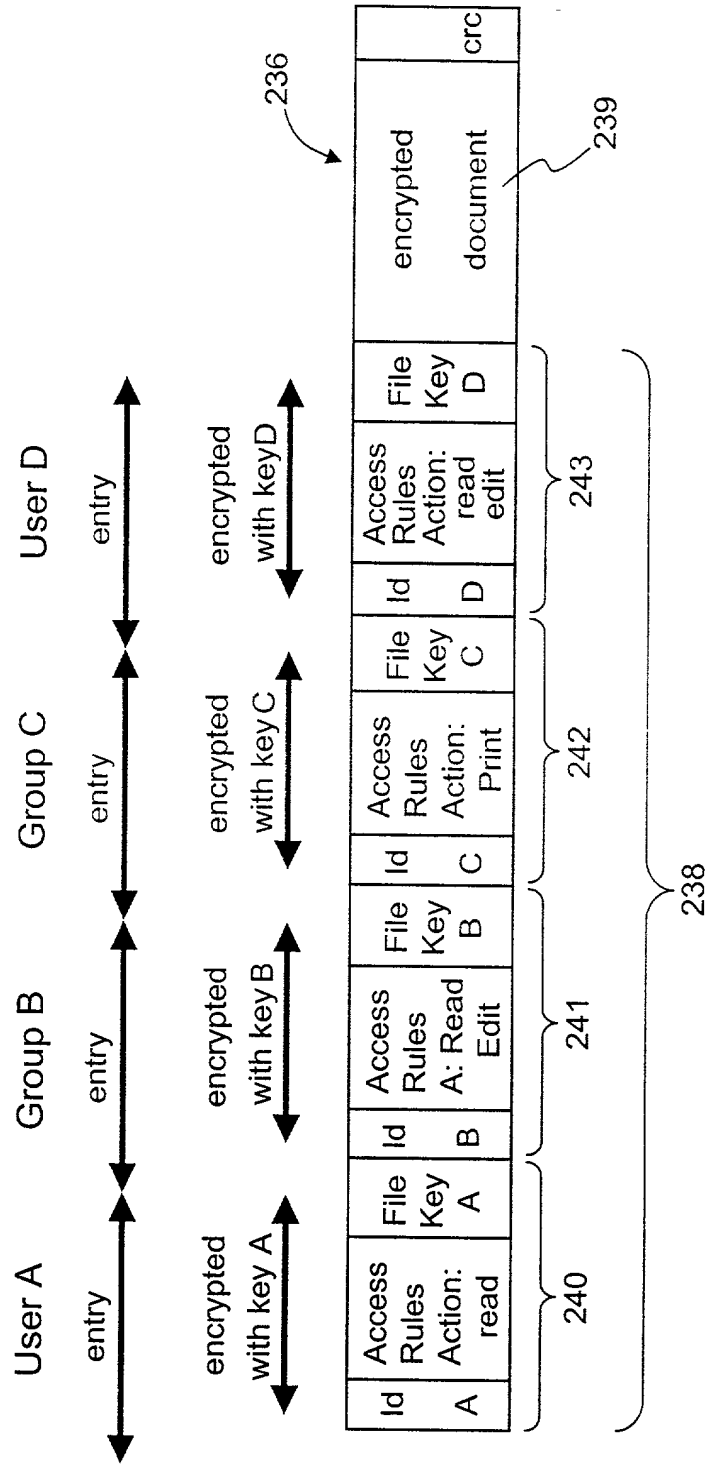


Fig. 2C.1

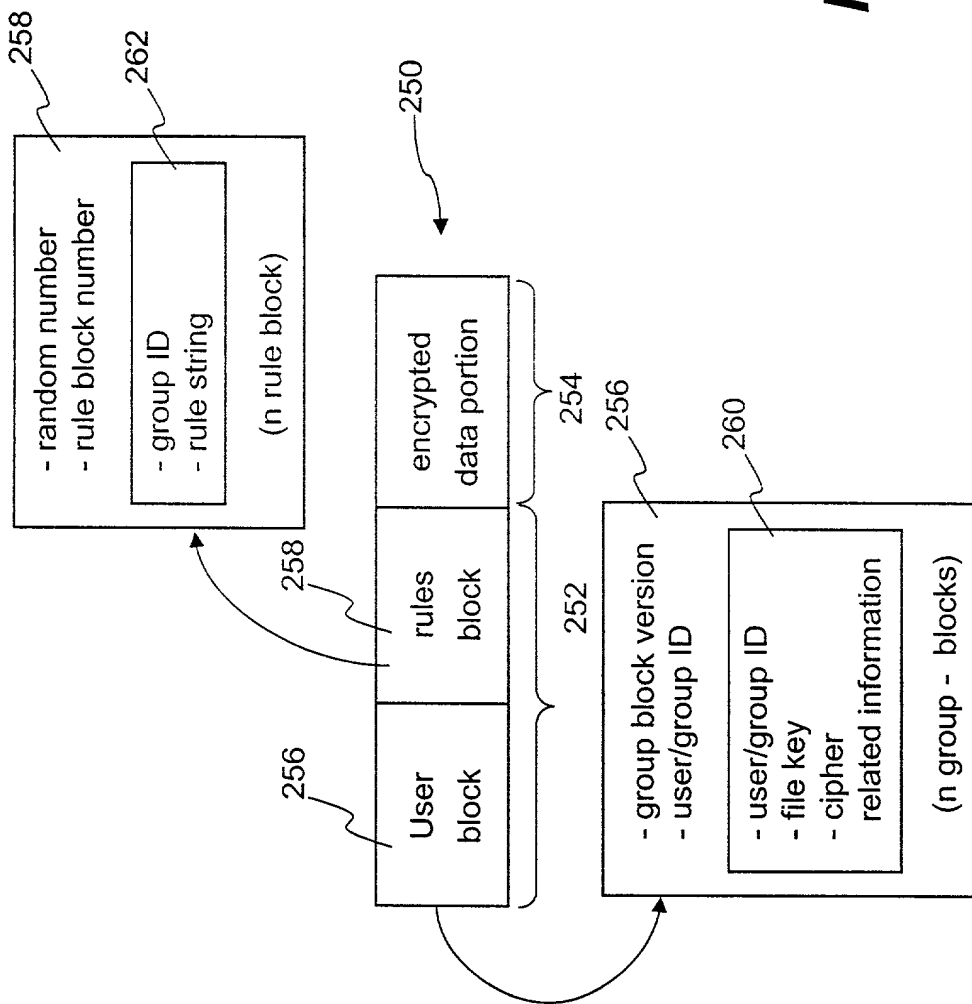


Fig. 2C.2


```

<header>
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    1.0
  </header_version>
  <key_blocks_list>
    <key_blocks_list_version>
      1.0
    </key_blocks_list_version>
    <key_block>
      <key_block_version>
        1.0
      </key_block_version>
      <group_id> www.xyz.com/marketing </group_id>

      <*> /* encrypted with Marketing's public-key */
      <group_id> www.xyz.com/marketing </group_id>

      <crypto>
        <dek_mat>P39GJ439833IOOE93I5UR93U3945U439</dek_mat>
        <enc_algo>
          <name>
            RIJNDael
          </name>
          <key_size> 256 </key_size>
          <block_size> 128 </block_size>
          <enc_algo>
            <ses_enc_block_size> 4096 </ses_enc_block_size>
          </crypto>
        <*>

      </key_block>
    </key_blocks_list>
  </header>

  <key_block>
    <key_block_version> 1.0 </key_block_version>
    <group_id> www.xyz.com/engineering </group_id>

    <*> /* encrypted with User1_Trivial_Group's public-key */
    <group_id> www.xyz.com/engineering </group_id>
    <crypto>
      <dek_mat>P39GJ439833IOOE93I5UR93U3945U439</dek_mat>
      <enc_algo>
        <name>
          RIJNDael
        </name>
        <key_size> 256 </key_size>
        <block_size> 128 </block_size>
        <enc_algo>
          <ses_enc_block_size> 4096 </ses_enc_block_size>
        </crypto>
      <*>

    </key_block>
  </key_blocks_list>
  <rule_block_list_version> 1.0 </rule_block_list_version>

  <secure-info encryption="dek" block-size="1024">
    <rule_block version="1.0">
      <group_id> www.xyz.com/marketing </group_id>
      <rule_xml_string> ... </rule_xml_string>
    </rule_block>
    <rule_block version="1.0">
      <group_id> www.xyz.com/engineering </group_id>
      <rule_xml_string> ... </rule_xml_string>
    </rule_block>
  </secure-info>

  </rule_blocks_list>
</header>

```

Fig. 2C.3

AdmGrp : GUI

Group to pickup users:

Group C

User Names

User 15
User 16
User 17
User 18
User 19

Add

Delete

Group to setup:

Group B

User Names

User 20
User 21
User 22
User 23
User 24
User 25
User 26
User 27
User 28
User 29
User 30

Rights about other groups:

☐ Adm Rights
☒ Close
☐ Grant group creation
☐ Grant to set or no closed groups

Default rights for files in this group:

☒ Read
☒ Update
☒ Delete
☐ Change group

Apply

Administrator Menu

Fig. 2D

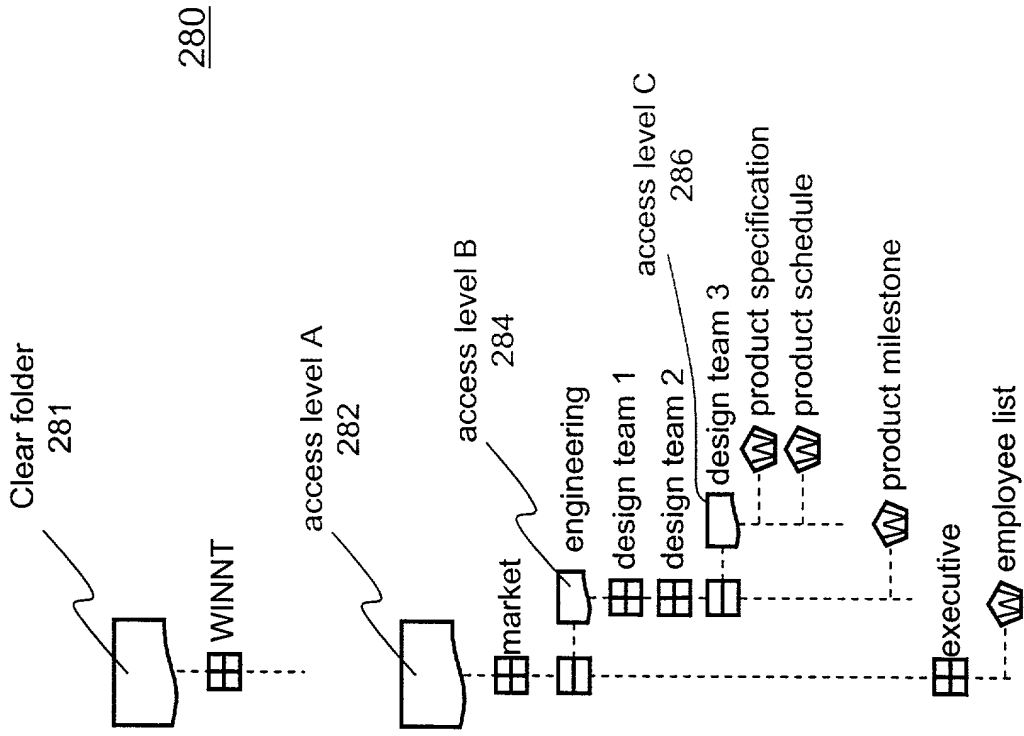


Fig. 2E

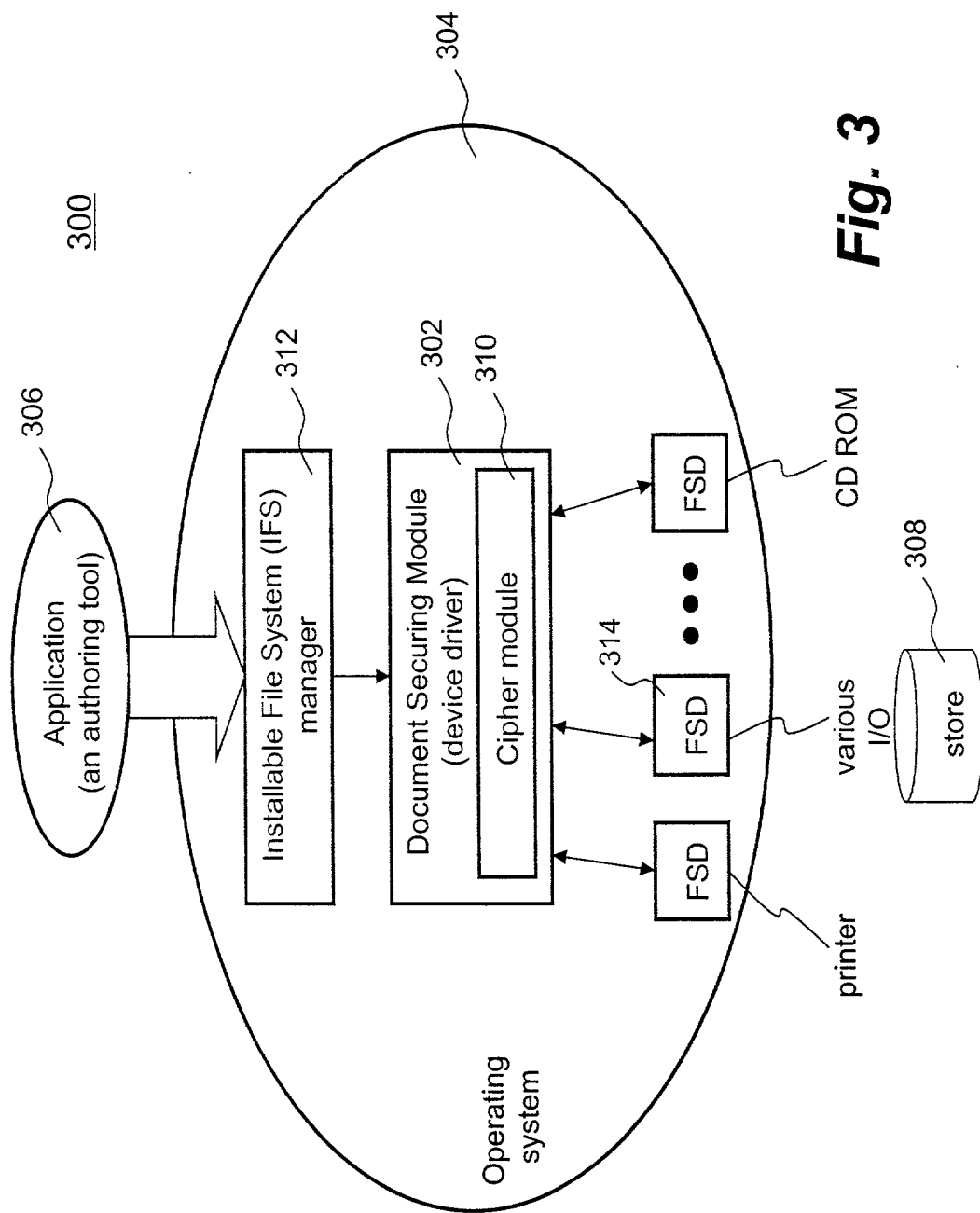


Fig. 3

Process of securing
a document 400

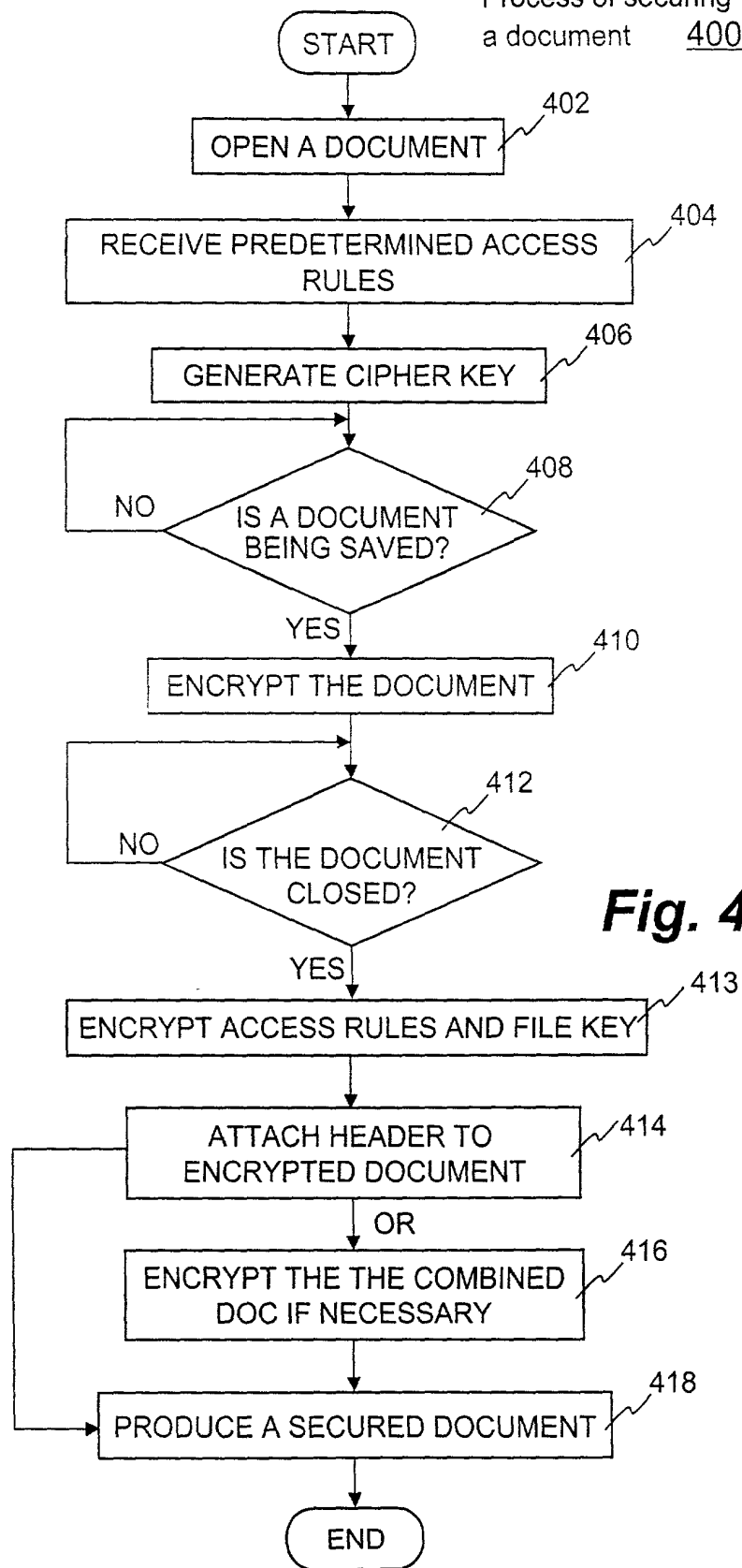


Fig. 4A

Process of receiving
access rules 430

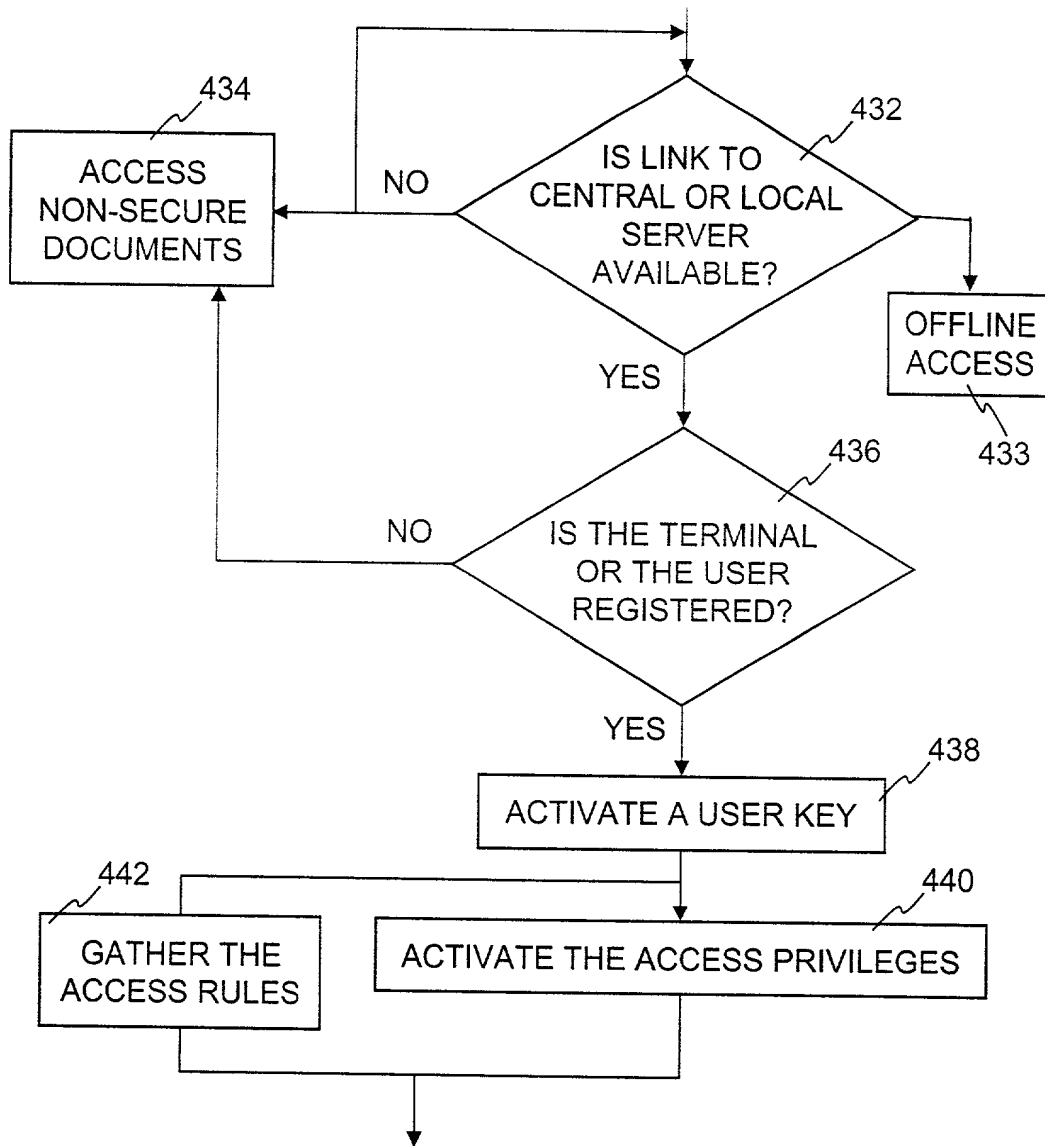
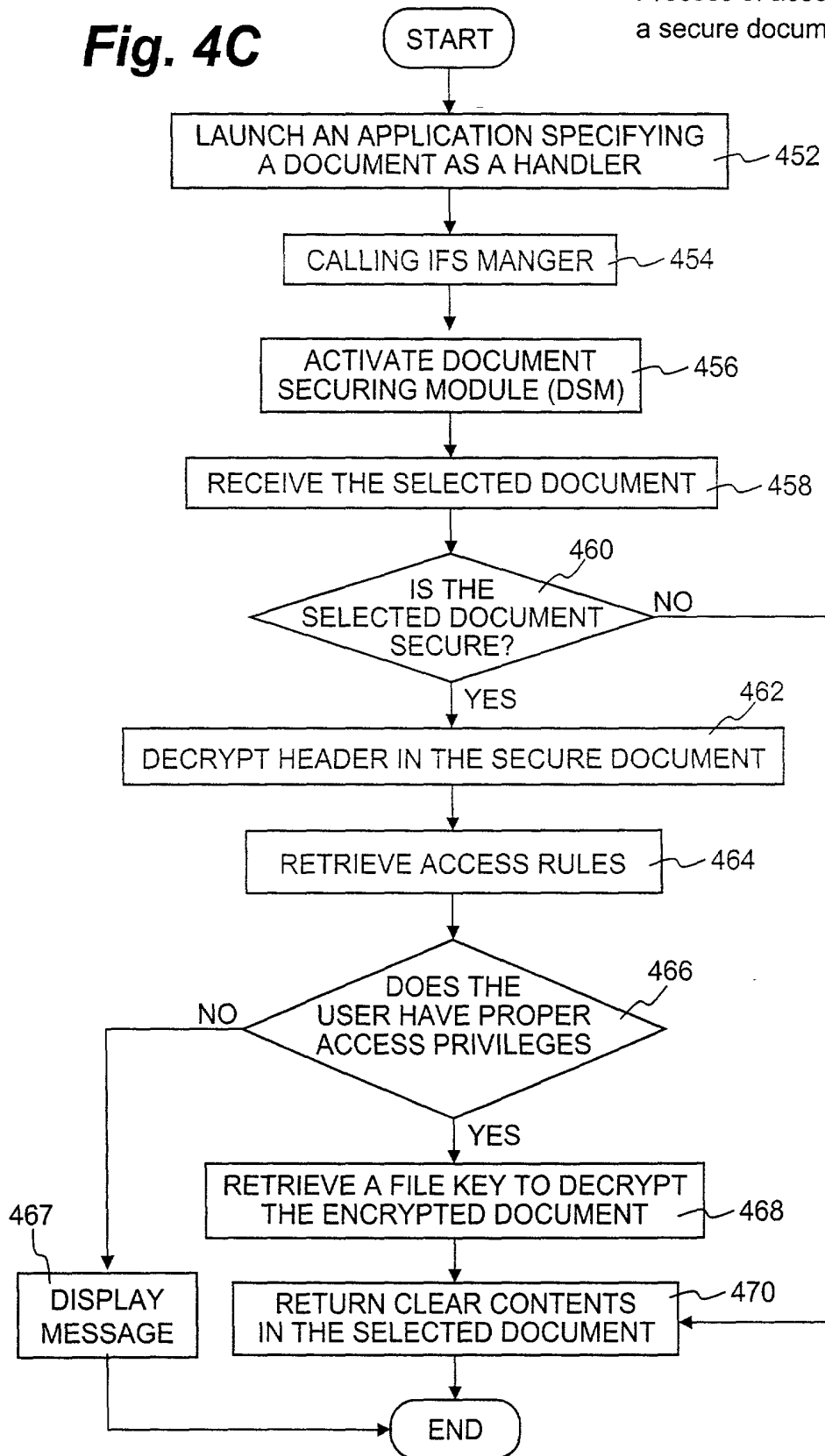
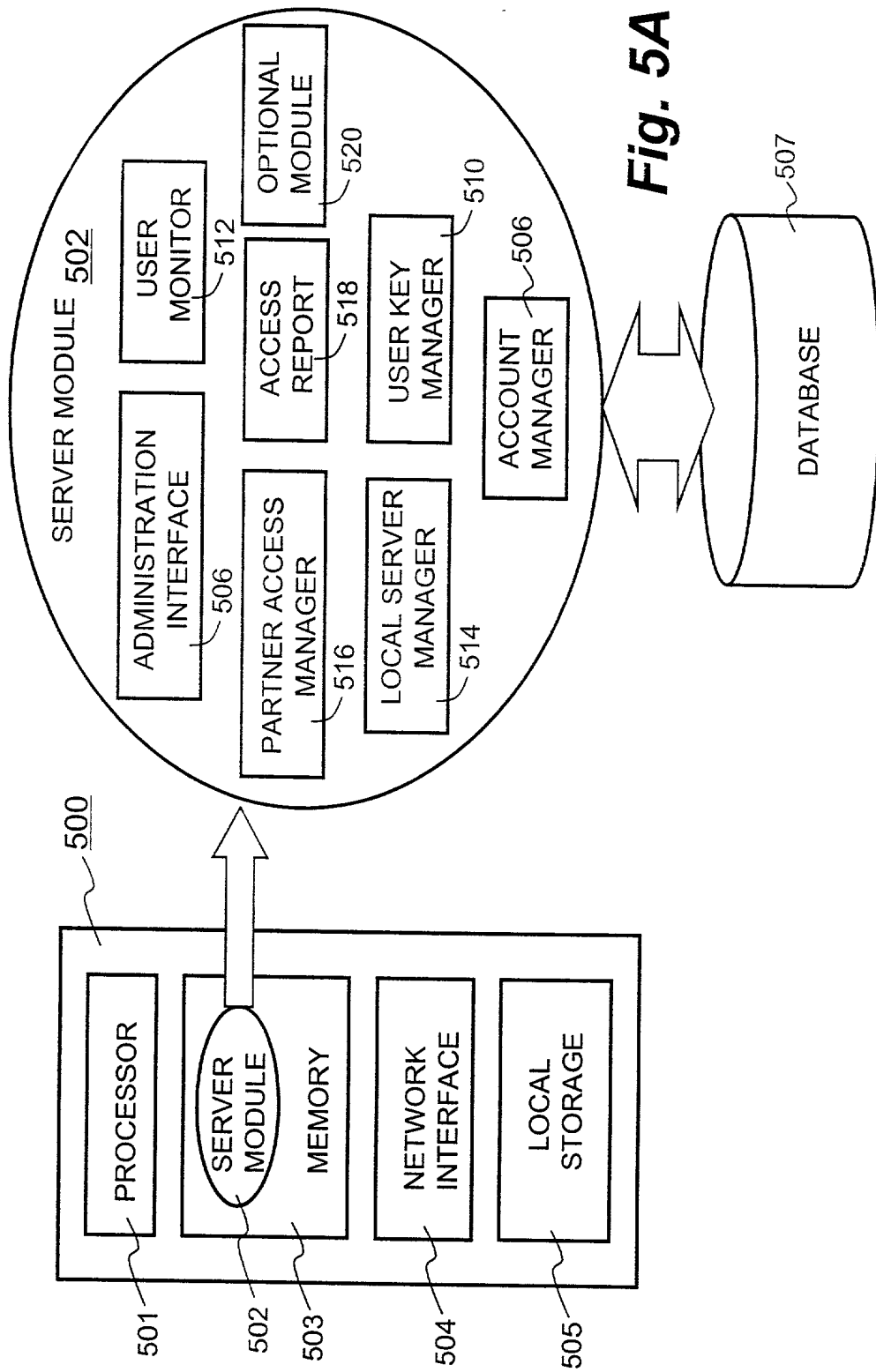


Fig. 4B

Fig. 4C

Process of accessing
a secure document 450





User ID	User	Open	Edit	Write	Print	Copy	Download	Others
01243	User A	Y	Y	Y	Y	Y	Y	Y
17364	User B	Y			Y			
18465	G User C	Y	Y	Y			Y	
• • • •								

Fig. 5B.1

All user keys	Key/Key pair	Location	others
John's	111101101010101	128.1.100.64, ...	
Mike's, Dell's	101011000111111	64.100.1.128, ...	
Finance group	010101010111111	64.100.1.100, ...	
• • •			

Fig. 5B.2

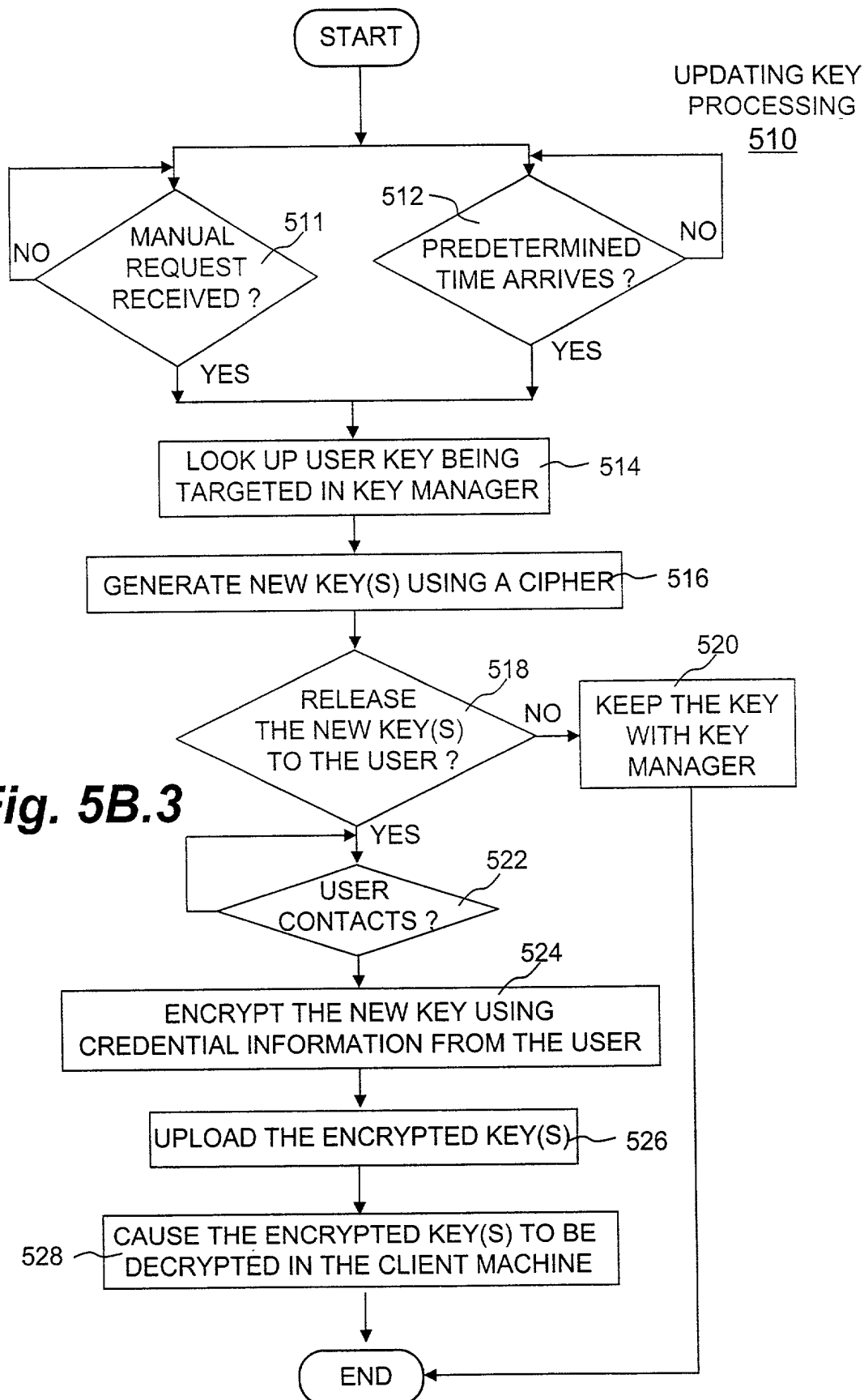


Fig. 5B.3

Server Assisted Process
of Accessing secure
document 530

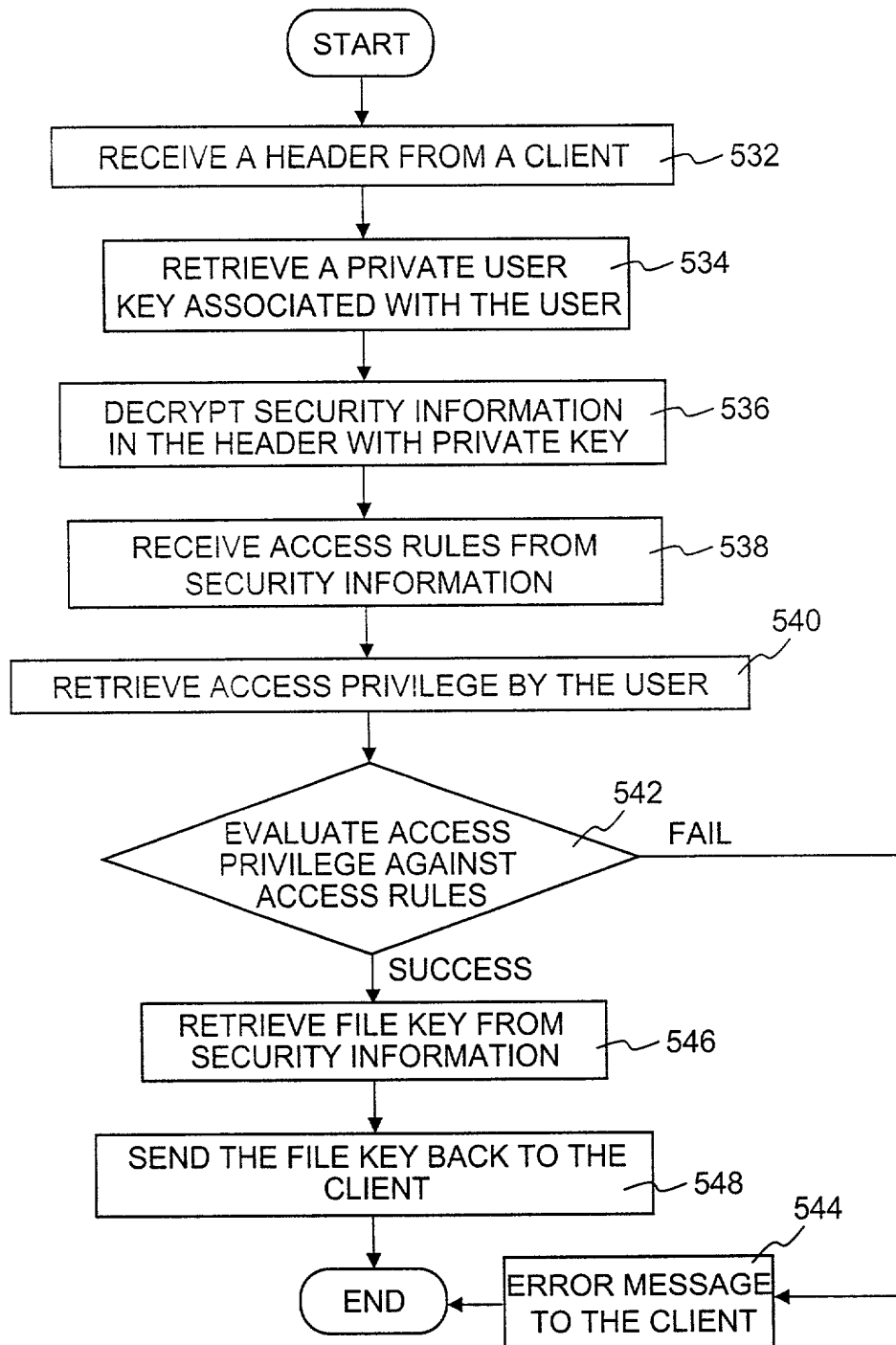


Fig. 5B.4

Server Assisted Process
of securing a document
550

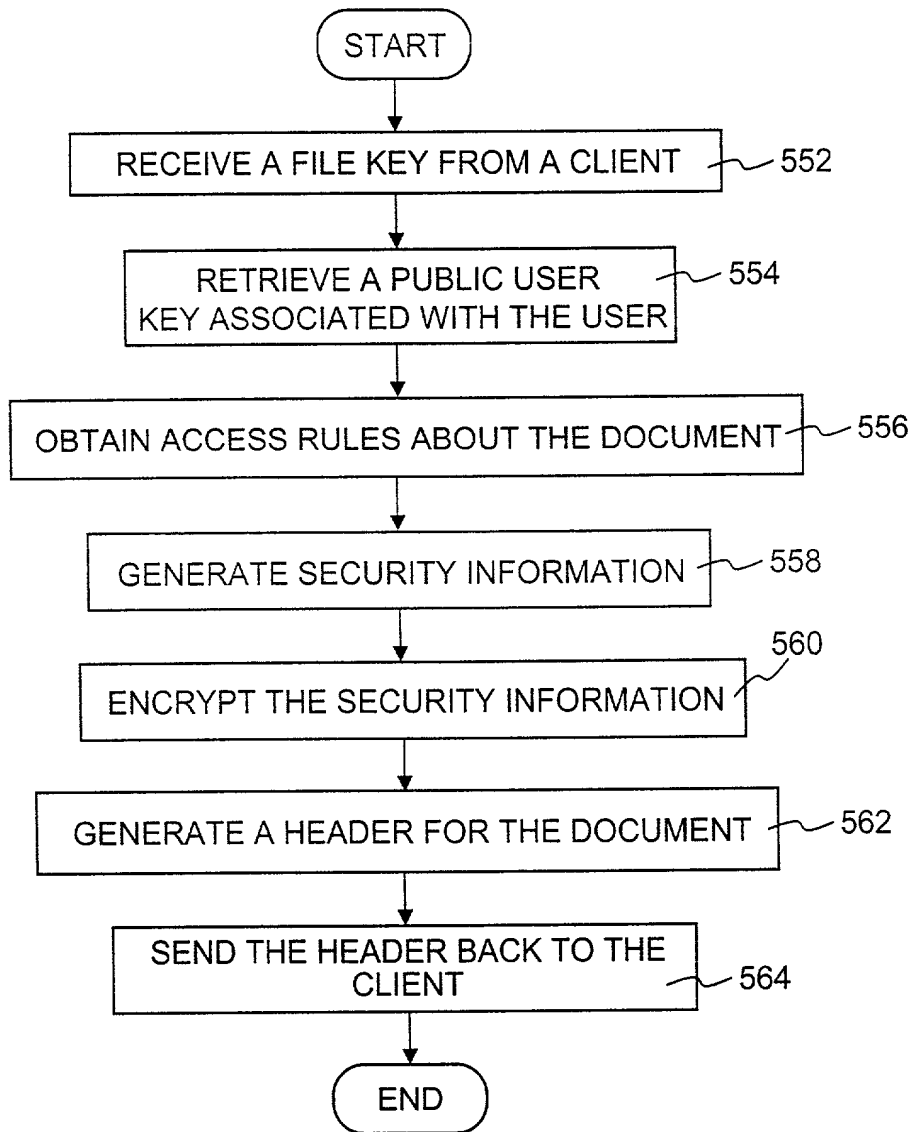


Fig. 5B.5

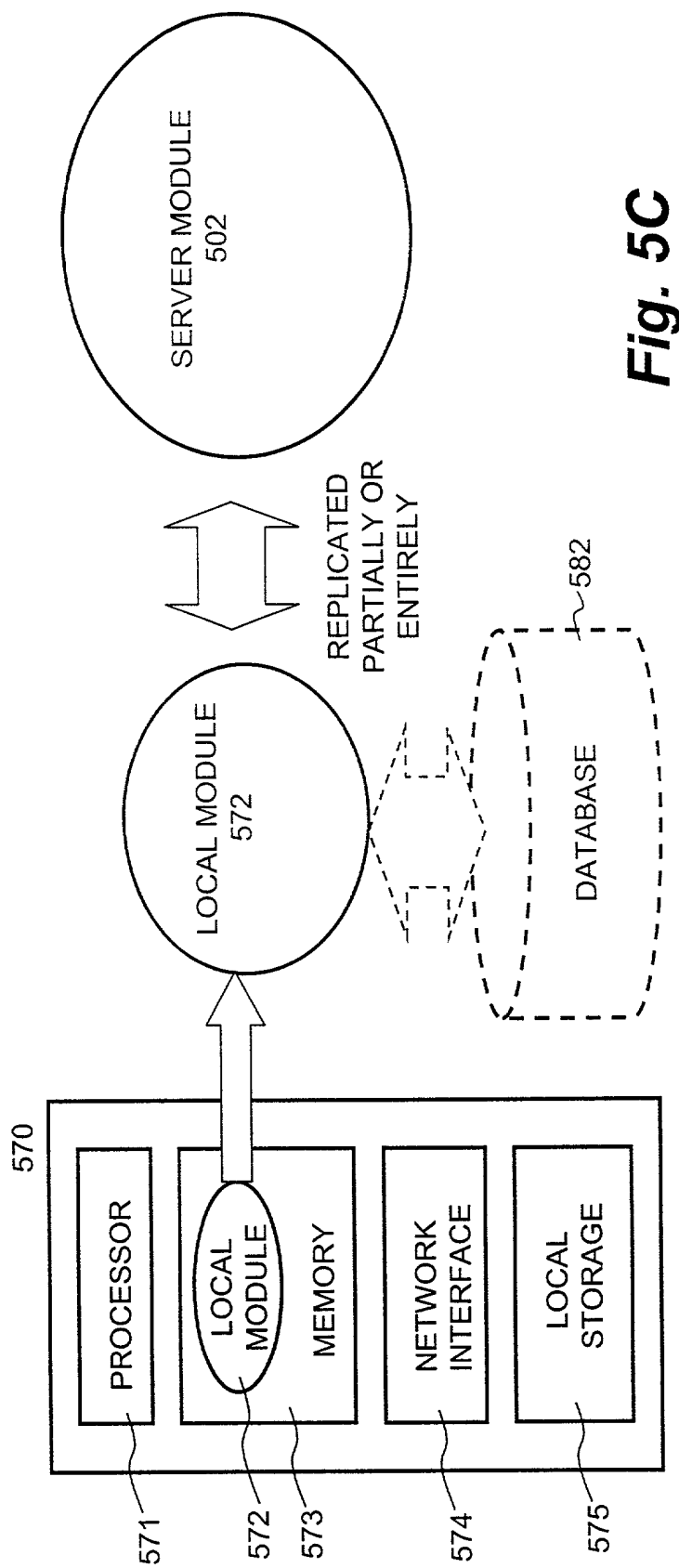


Fig. 5C

USER	PASSWORD	ACCESS PRIVILEGES
John	*****	L=10, T=24, D=ALL, C=ALL 585
Dell	*****	L=1, T=8, D=M-F, C=A 586
Mike	*****	L=5, T=12, D=M-S, C=A & B 587
	•	
	•	
	•	

Fig. 5D

For Local Server C

USER	PASSWORD
John	*****
	•
	•
	•

For Local Server B

USER	PASSWORD
John	*****
Mike	*****
	•
	•
	•

For Local Server A

USER	PASSWORD
John	*****
Dell	*****
Mike	*****
	•
	•
	•

Fig. 5E

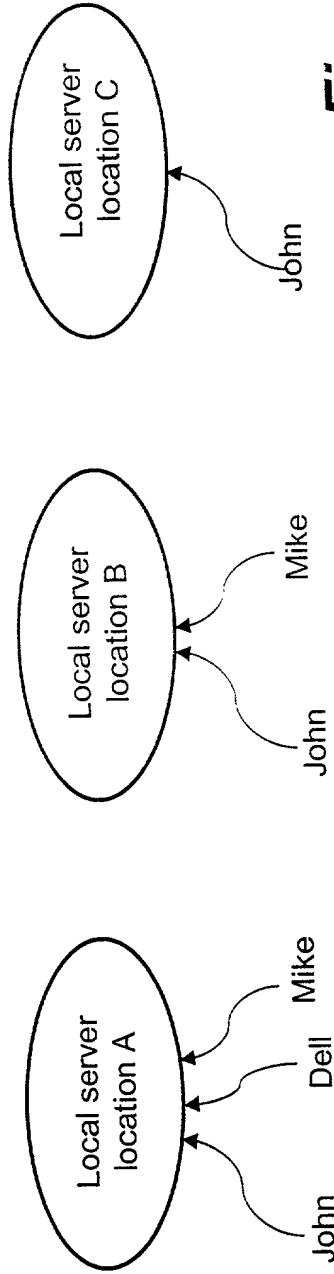


Fig. 5F

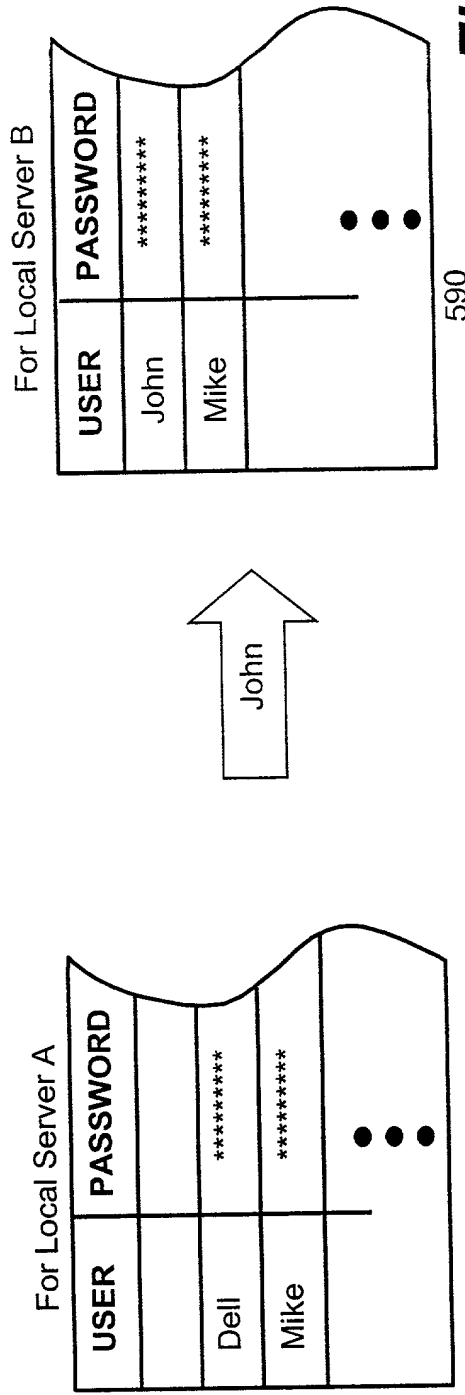


Fig. 5G

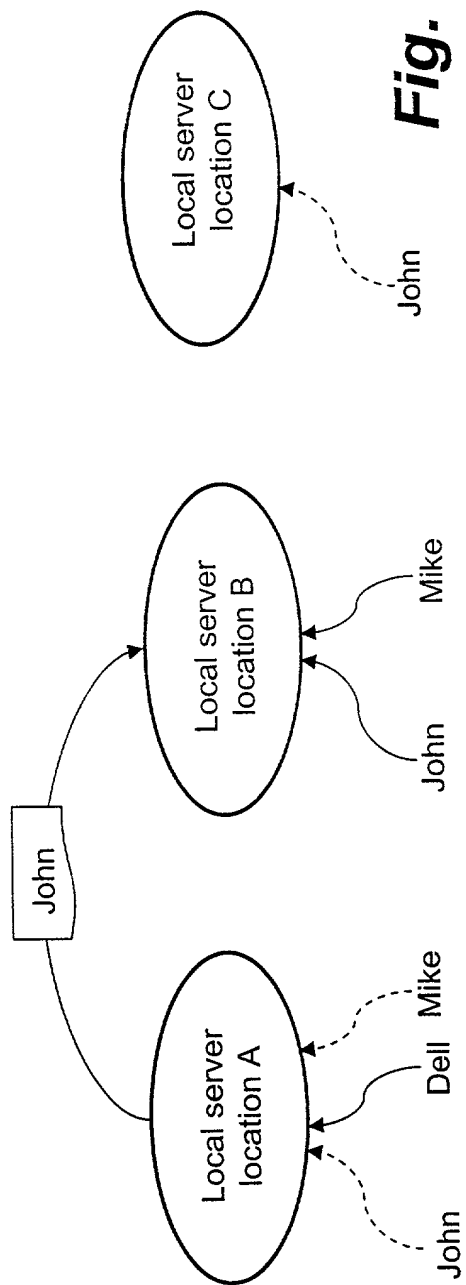


Fig. 5H

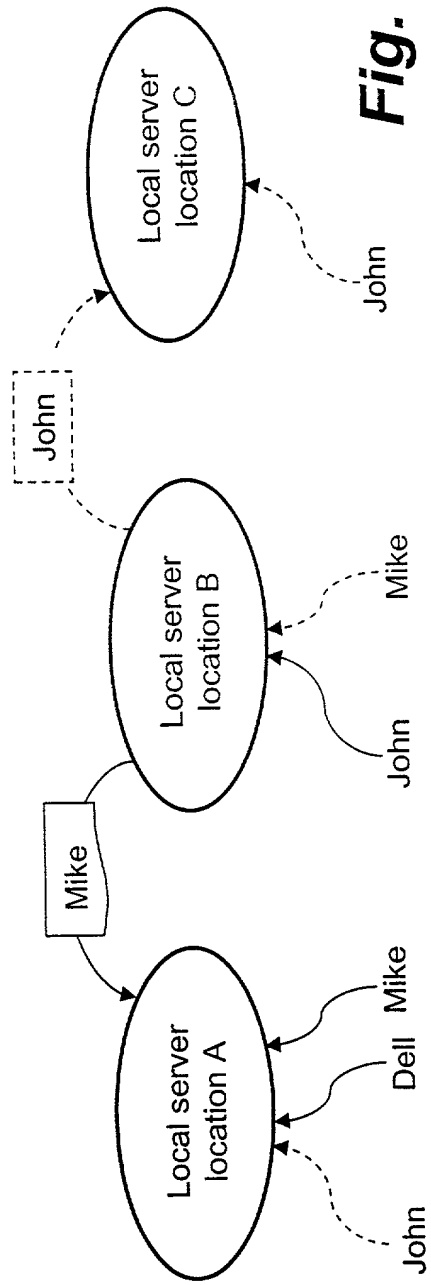


Fig. 5I

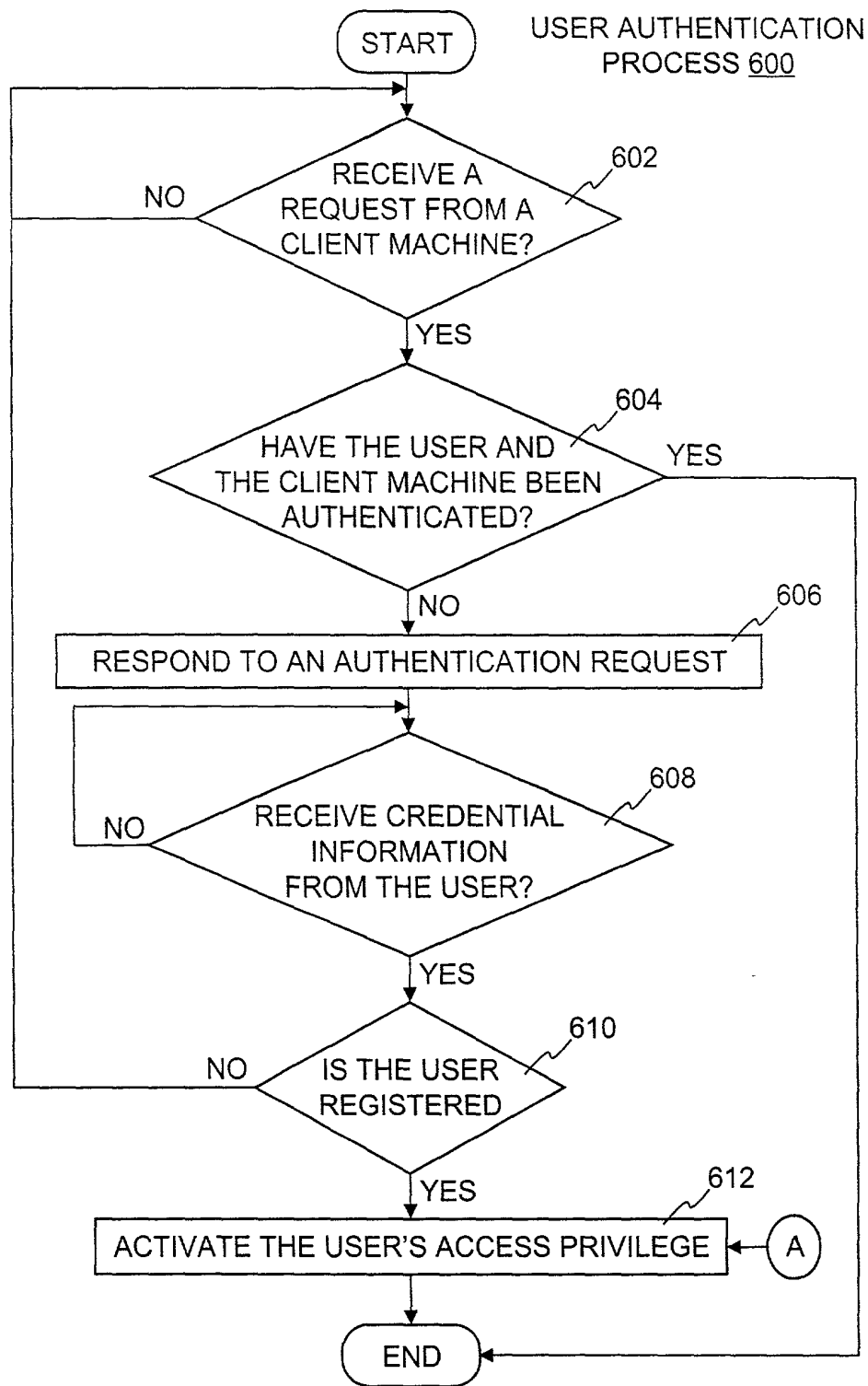


Fig. 6A

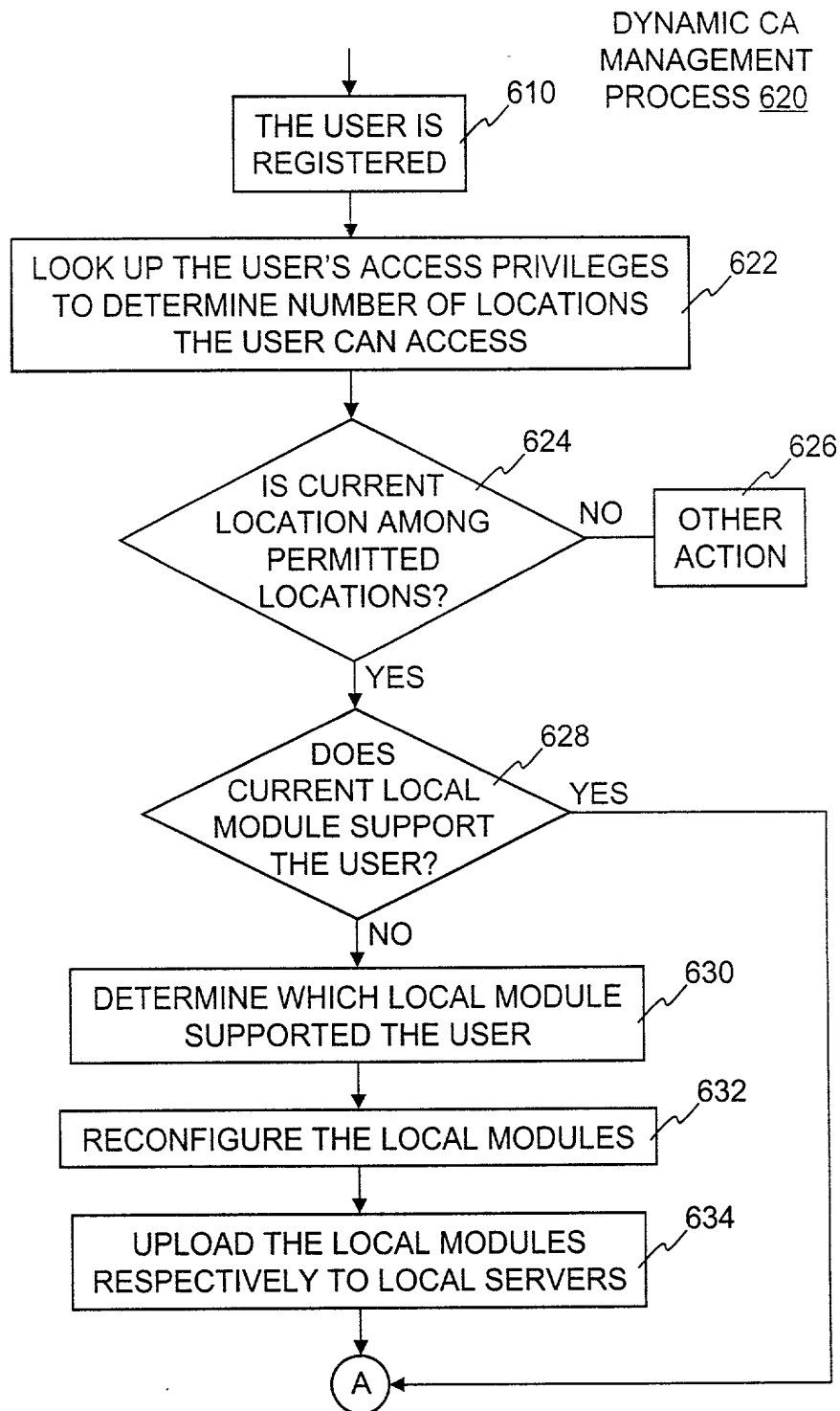


Fig. 6B

PROCESS OF
RECONFIGURING
LOCAL MODULE
640

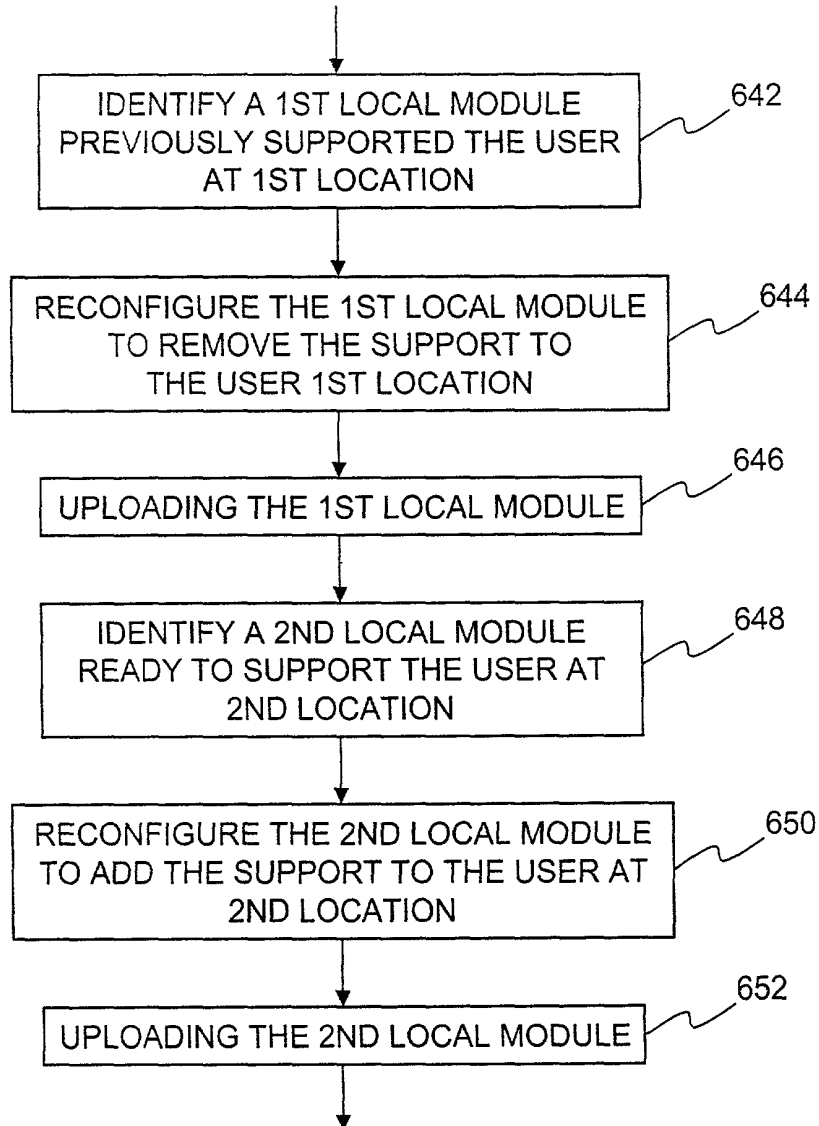


Fig. 6C

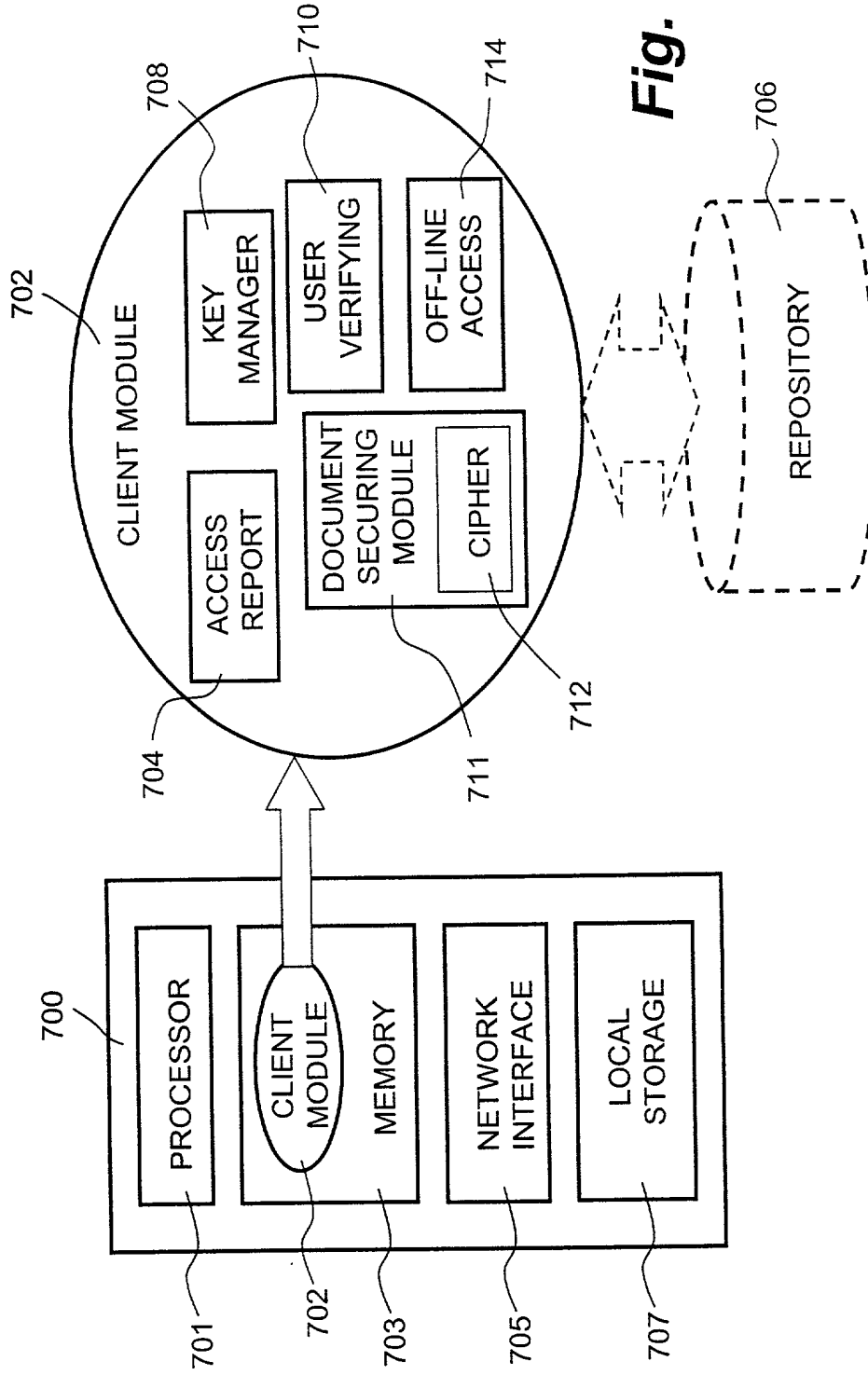


Fig. 7A

720

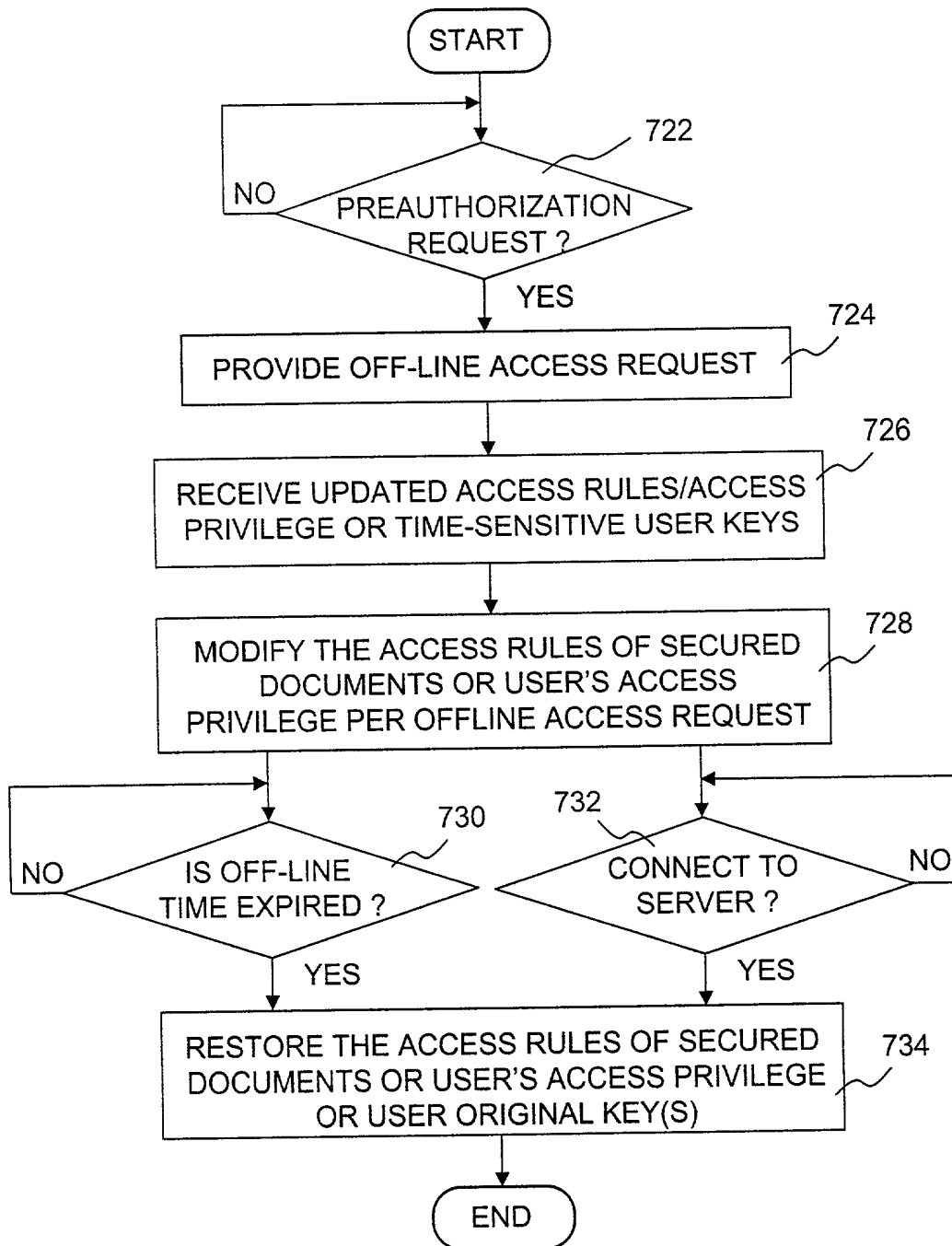


Fig. 7B

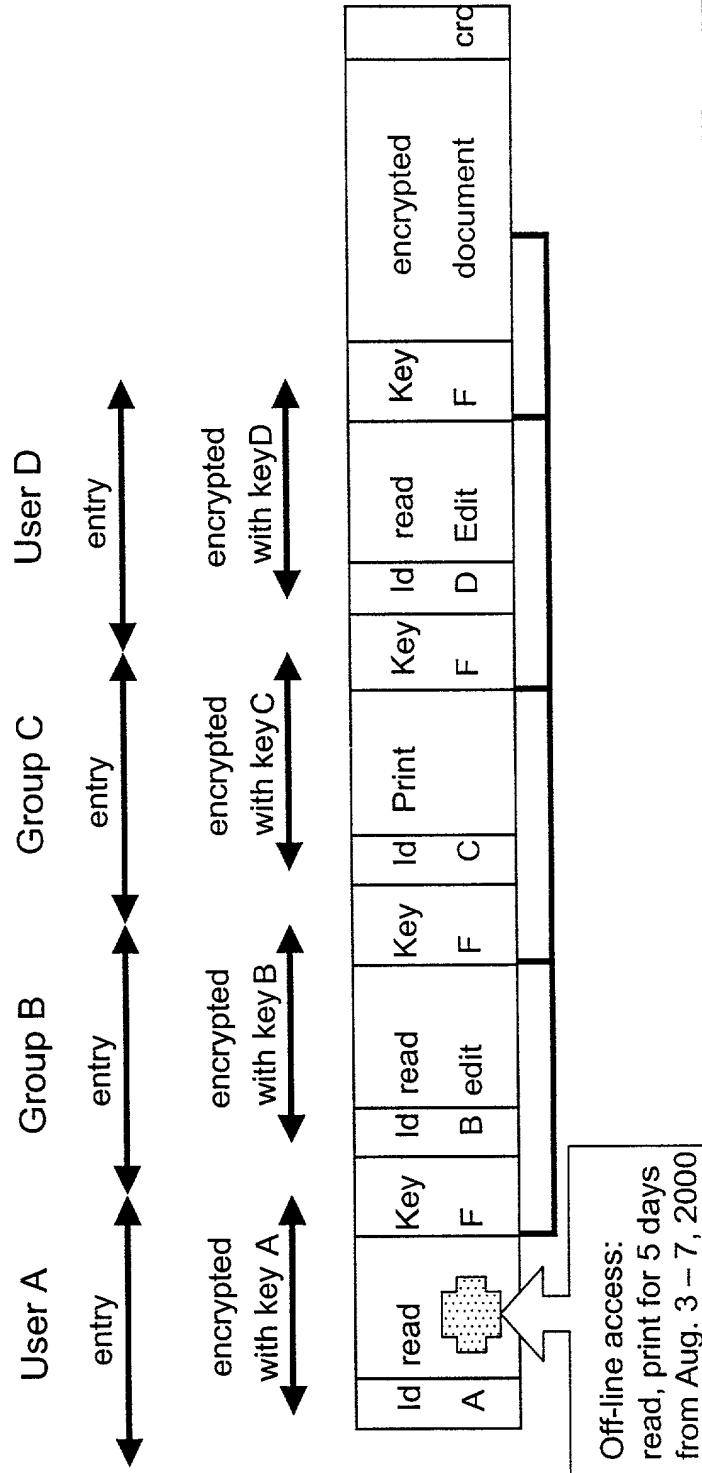


Fig. 7C